

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. – 87. (Cancelled)

88. (New) A method to configure, via a management interface, an Impulse Noise Protection (INP) capability comprising:

receiving information, at the management interface, indicating one or more of a length and repetition period of impulse noise; and

updating, based on the received information, a first INP value to a second, different, INP value, the first INP value specifying a first number of corrupted DMT symbols that can be corrected and the second INP value specifying a second number of corrupted DMT symbols that can be corrected.

89. (New) The method of claim 88, wherein the length of the impulse noise is a maximum length.

90. (New) The method of claim 88, wherein the repetition period of impulse noise is a maximum period.

91. (New) The method of claim 88, wherein the information indicates one or more of a length of impulse noise and a repetition period where a greater INP is needed.

92. (New) The method of claim 88, wherein a service provider or operator updates the first INP value.

93. (New) The method of claim 88, wherein a management module automatically updates the first INP value.

94. (New) The method of claim 88, wherein a message is used to communicate the second INP value.

95. (New) The method of claim 88, wherein the length of the impulse noise exceeds a correction capability of the first INP value.

96. (New) A method to configure, via a management interface, an Impulse Noise Protection (INP) capability comprising:

configuring, at the management interface, a first INP value, the first INP value specifying a first number of corrupted DMT symbols that can be corrected;

receiving impulse noise information, at the management interface, indicating one or more of a length and repetition period of impulse noise, wherein the received impulse noise information indicates a requirement to increase the first INP value; and

updating, based on the received information, the first INP value to a second, greater, INP value, the second INP value specifying a second number of corrupted DMT symbols that can be corrected.

97. (New) The method of claim 96, wherein the length of the impulse noise is a maximum length.

98. (New) The method of claim 96, wherein the repetition period of impulse noise is a maximum period.

99. (New) The method of claim 96, wherein the information indicates an impact of impulse noise.

100. (New) The method of claim 96, wherein a service provider or operator updates the first INP value.

101. (New) The method of claim 96, wherein a management module automatically updates the first INP value.

102. (New) The method of claim 96, wherein a message is used to communicate the second INP value.

103. (New) The method of claim 96, wherein the length of the impulse noise exceeds a correction capability of the first INP value.

104. (New) A method to configure, via a management interface, an Impulse Noise Protection (INP) capability comprising:

configuring, at the management interface, a first INP value, the first INP value specifying a first number of corrupted DMT symbols that can be corrected;

receiving impulse noise information, at the management interface, indicating one or more of a length and repetition period of impulse noise, wherein the received impulse noise information indicates a requirement to decrease the first INP value; and

updating, based on the received information, the first INP value to a second, lesser, INP value, the second INP value specifying a second number of corrupted DMT symbols that can be corrected.

105. (New) Means for configuring, via a management interface, an Impulse Noise Protection (INP) capability comprising:

means for receiving information, at the management interface, indicating one or more of a length and repetition period of impulse noise; and

means for updating, based on the received information, a first INP value to a second, different, INP value, the first INP value specifying a first number of corrupted DMT symbols that can be corrected and the second INP value specifying a second number of corrupted DMT symbols that can be corrected.

106. (New) The system of claim 105, wherein the length of the impulse noise is a maximum length.

107. (New) The system of claim 105, wherein the repetition period of impulse noise is a maximum period.

108. (New) The system of claim 105, wherein the information indicates one or more of a length of impulse noise and a repetition period where a greater INP is needed.

109. (New) The system of claim 105, wherein a service provider or operator updates the first INP value.

110. (New) The system of claim 105, wherein a management module automatically updates the first INP value.

111. (New) The system of claim 105, wherein a message is used to communicate the second INP value.

112. (New) The system of claim 105, wherein the length of the impulse noise exceeds a correction capability of the first INP value.

113. (New) Means for configuring, via a management interface, an Impulse Noise Protection (INP) capability comprising:

means for configuring, at the management interface, a first INP value, the first INP value specifying a first number of corrupted DMT symbols that can be corrected;

means for receiving impulse noise information, at the management interface, indicating one or more of a length and repetition period of impulse noise, wherein the received impulse noise information indicates a requirement to increase the first INP value; and

means for updating, based on the received information, the first INP value to a second, greater, INP value, the second INP value specifying a second number of corrupted DMT symbols that can be corrected.

114. (New) The system of claim 113, wherein the length of the impulse noise is a maximum length.

115. (New) The system of claim 113, wherein the repetition period of impulse noise is a maximum period.

116. (New) The system of claim 113, wherein the information indicates an impact of impulse noise.

117. (New) The system of claim 113, wherein a service provider or operator updates the first INP value.

118. (New) The system of claim 113, wherein a management module automatically updates the first INP value.

119. (New) The system of claim 113, wherein a message is used to communicate the second INP value.

120. (New) The system of claim 113, wherein the length of the impulse noise exceeds a correction capability of the first INP value.

121. (New) Means for configuring, via a management interface, an Impulse Noise Protection (INP) capability comprising:

means for configuring, at the management interface, a first INP value, the first INP value specifying a first number of corrupted DMT symbols that can be corrected;

means for receiving impulse noise information, at the management interface, indicating one or more of a length and repetition period of impulse noise, wherein the received impulse noise information indicates a requirement to decrease the first INP value; and

means for updating, based on the received information, the first INP value to a second, lesser, INP value, the second INP value specifying a second number of corrupted DMT symbols that can be corrected.